

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A support-bound probe, comprising
- a capture oligonucleotide sequence covalently attached to the surface of a solid support,
- and
- a conjugate, comprising
- a target moiety,
- a pairing oligonucleotide sequence that which specifically hybridizes to the surface-bound oligonucleotide sequence, and which is covalently attached to the target moiety through a linking moiety, wherein said linking moiety terminates chain extension by a polymerase, and wherein the pairing oligonucleotide specifically hybridizes to the surface-bound oligonucleotide sequence, and
- a crosslinking moiety covalently bound to the pairing oligonucleotide sequence and to either the surface-bound oligonucleotide sequence or the surface of the solid support.

2. (Cancelled)
3. (Withdrawn)
4. (Cancelled)
5. (Original) The support-bound probe of claim 1, wherein the crosslinking moiety is psoralen.
6. (Original) The support-bound probe of claim 1, wherein the target moiety is a single-stranded or double-stranded nucleotide sequence.

Claims 7-8 (Withdrawn)

9. (Original) The support-bound probe of claim 1, wherein the pairing oligonucleotide sequence comprises between 3 and 50 nucleotides.
10. (Original) The support-bound probe of claim 1, wherein the pairing oligonucleotide sequence comprises between 3 and 20 nucleotides.
11. (Original) The support-bound probe of claim 1, wherein the pairing oligonucleotide sequence comprises between 3 and 10 nucleotides.

12. (Original) A solid support bearing an array of support-bound probes of claim 1 on the surface thereof.

13. (Original) The solid support of claim 12, bearing at least 50 probes on the surface thereof.

14. (Original) The solid support of claim 12, bearing at least 100 probes on the surface thereof.

15. (Original) The solid support of claim 12, bearing at least 500 probes on the surface thereof.

16. (Original) The solid support of claim 12, bearing a probe density of between $1 - 12 \times 10^{11}$ moles per cm^2 .

17. (Original) The solid support of claim 12, bearing a probe density between $2 - 6 \times 10^{11}$ moles per cm^2 .

18. (Original) The solid support of claim 12, bearing a probe density between $3 - 4 \times 10^{11}$ moles per cm^2 .

19. (Original) The solid support of claim 12, wherein the array comprises a library of target moieties.

Claims 20-47 (Withdrawn)

48. (New) The support-bound probe of claim 1, wherein the linking moiety is an alkylene group.

49. (New) The support-bound probe of claim 1, wherein the linking moiety is polyethylene glycol.